Ref. No. 3512

ONKYO® SERVICE MANUAL

CASSETTE TAPE DECK

MODEL TA-6210

Black model,silver model

MP	230V AC, 50Hz
MW	120V/220V AC, 50/60Hz
MD	120V, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Track Format:	4-tracks, 2-channels
Erasing System:	AC erase
Tape Speed:	4.8 cm/sec. (1-7/8 i.p.s.)
Wow and Flutter:	0.07% (WRMS) 0.09% (DIN)
Frequency Response:	20—17,000Hz (normal) (30—16,000Hz ± 3dB) 20—18,000Hz (high) (30—17,000Hz ± 3dB) 20—19,000Hz (metal) (30—18,000Hz ± 3dB)
S/N Ratio:	58dB (metal tape, Dolby NR off) A noise reduction of 10dB above 5kHz and 5dB at 1kHz is possible with Dolby B NR. A noise reduction of 20dB at 5kHz is possible with Dolby C NR.
Input Jacks:	LINE IN: 2 Input sensitivity: 80 mV Input impedance: 50 kohms
Output Jacks:	LINE OUT: 2 Standard output level: 500 mV (0dB) Optimum load impedance: over 50 kohms Headphone jack:1 Optimum load impedance:8 to 200 ohms
Motors:	DC servo motor: 1 DC motor: 1
Heads:	REC/PB: Special Hard Permalloy × 1 Erase head: Ferrite × 1
Power Supply Rating:	European models: AC 230 V, 50Hz USA and Cadadian models: AC 120V, 60Hz Worldwide models: AC 120 and 220 V, Switchable 60/50 Hz
Power Consumption:	20 watts
Dimensions:	455(W) × 120(H) × 311(D)mm 17 15/16" × 4 3/4" × 12 1/4"
Weight:	5.0 kg. (11.0 lbs.)

Specifications and external appearance are subject to change without notice because of product improvements.

ONKYO
AUDIO COMPONENTS

ADJUSTMENT PROCEDURES

PRECAUTION

1. Before adjustment, clean the following parts with an alchol moistend swab.
   *record/playback head *erase head
   *pinch roller *capstan
2. Do not use magnetized screwdriver for adjustment.
3. Demagnetized record/playback head with a liead demagnetizer.

TEST EQUIPMENT/TOOL REQUIRED

Audio oscillator
Digital frequency counter
Oscilloscope
Attenuater
AC voltmeter
Non-magnetic screwdriver
Test tapes
TCC-153 : 10kHz, -15dB
MTT-111N : 3kHz, -10dB
MTT-150 : Dolby level calibration
400Hz, tone 200nWb/m

	Item	Connection of instrument	Line output freq/level	Test tape	Mode	Output indicator	Adjustment point	Adjustment	Remarks
1	Tape speed	Frequency counter to LINE output terminals		MTT-111N	PB	Frequency counter	Screw on back side of Capstan motor	3,000Hz+10Hz	
2	Head azimuth	AC voltmeter and oscilloscope to LINE output terminals		TCC-153	PB	AC voltmeter	Fig.1	Maximum level & same phase at channels L and R	
3	Playback level	AC voltmeter to terminals TP-1 P105		MTT-150	PB	AC voltmeter	R117 (L.ch) R118 (R.ch)	300mV	
4	OSC Block	Frequency counter to P401 lead-Wire loose coupling		NONE or METAL TAPE	STOP	Frequency counter	L407	107kHz±1kHz	FT mode will be alive when J147 is connected to GND.
5	Bias current		1kHz & 10kHz -23dB 35mV	NORMAL TAPE	REC/ PB	AC voltmeter	R461 (L.ch) R462 (R.ch)	0~+1.0dB at 1kHz and 10kHz	FT mode will be alive when J147 is connected to GND.
6	Recording level		1kHz 350mV	NORMAL TAPE	REC/ PB	AC voltmeter	R403 (L.ch) R404 (R.ch)	Same level at REC/PB	FT mode will be alive when J147 is connected to GND.

Blank tapes

NORMAL•••UD-1 C-90
HIGH••••••XL-II C-90
METAL••••XS C-90

PLAY torque••••••30~70g/cm
FF.REW torque••••80~180g/cm
Back tension••••••6~12g/cm

Head azimuth screw

Don't touch these screws.

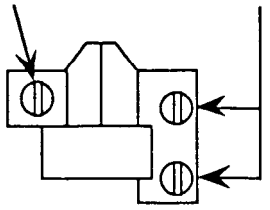
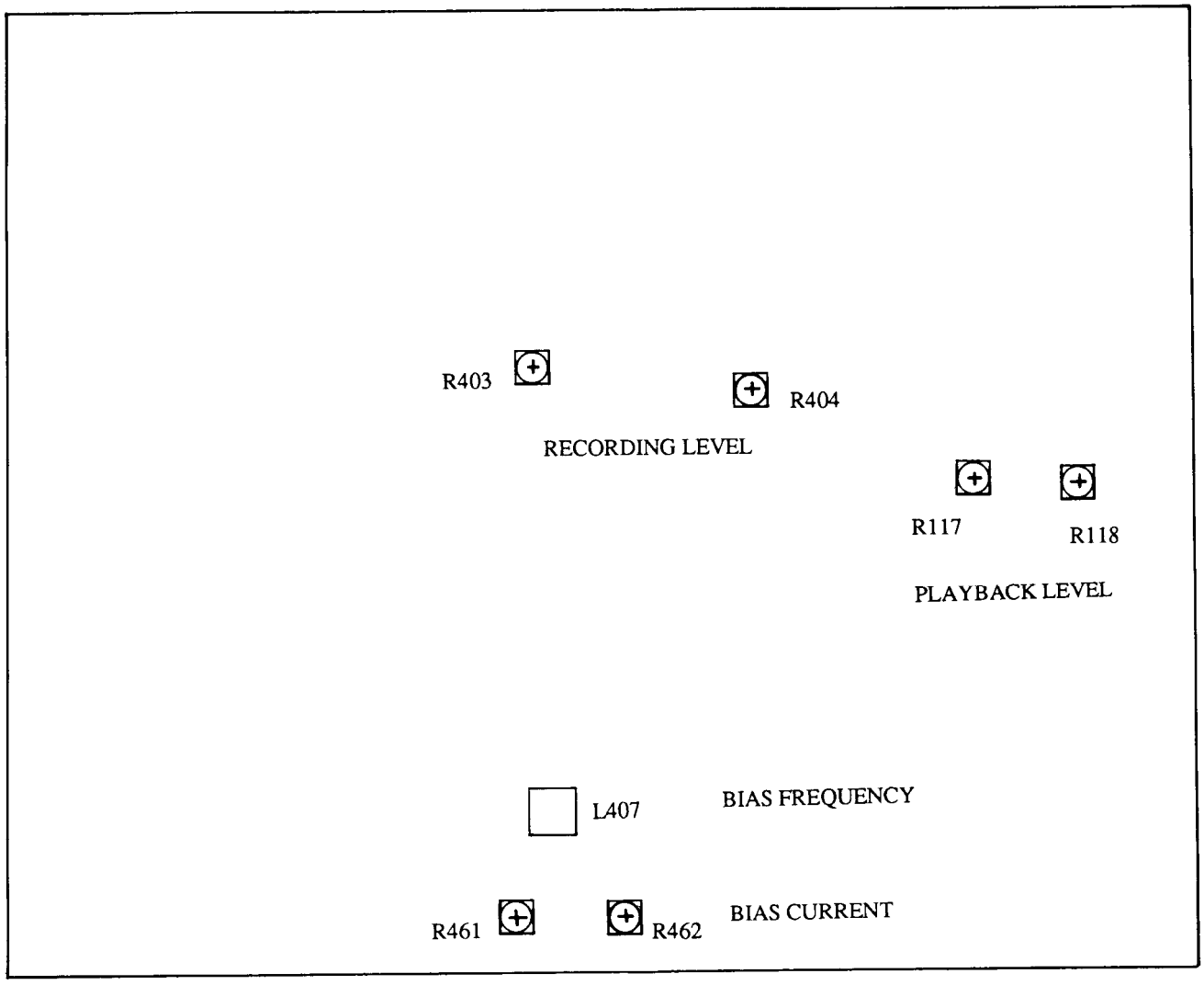
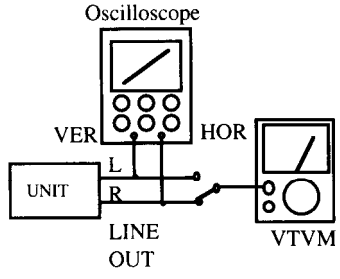


Fig.1 R/P Head

ADJUSTMENT POINT





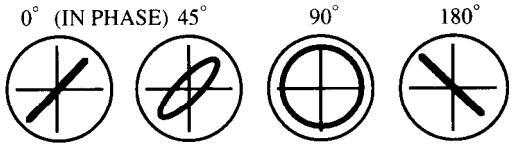


Fig.1 Confirming phase relationship

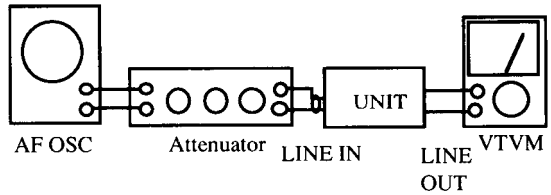
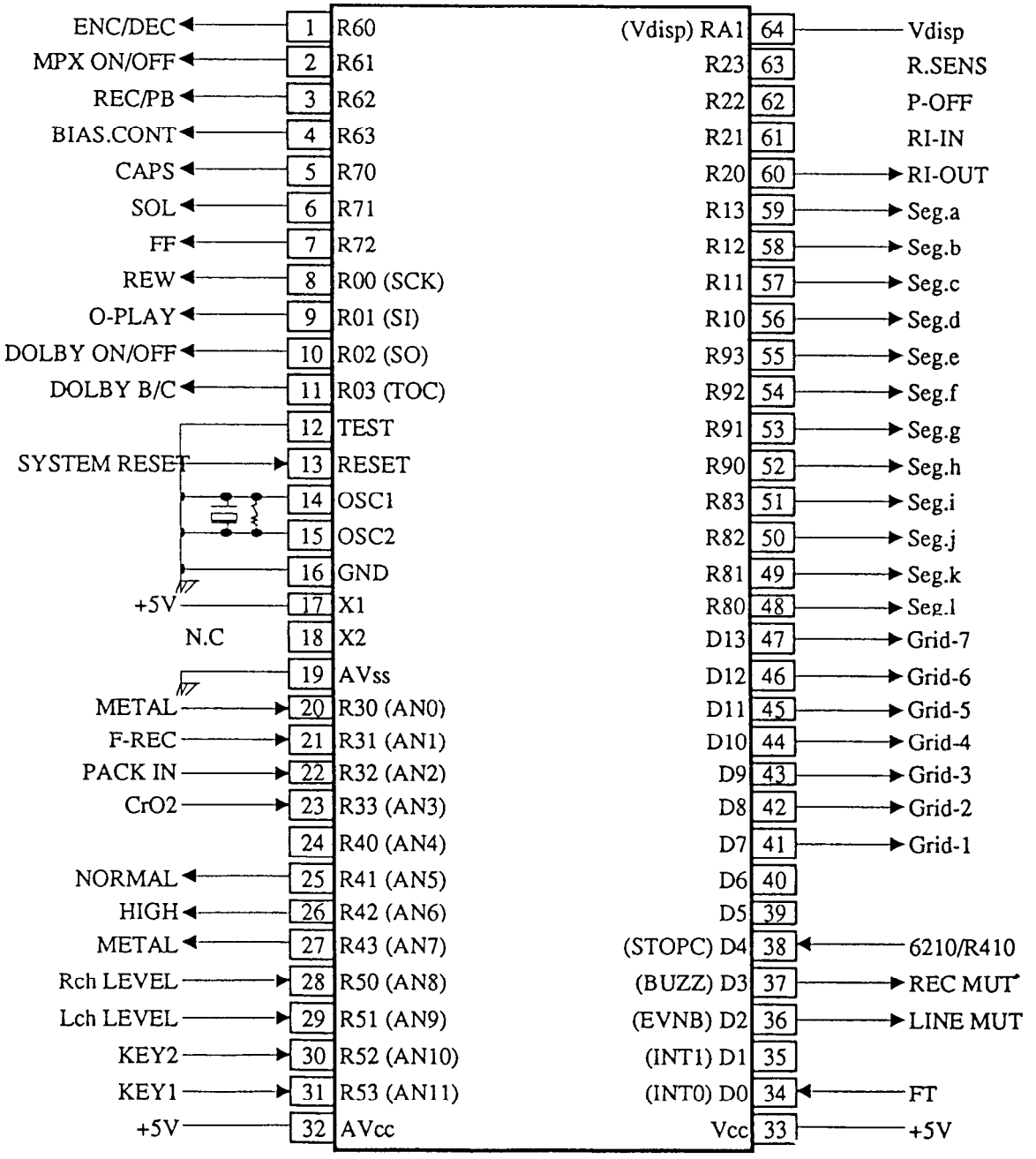


Fig. 2

MICROPROCESSOR CONNECTION DIAGRAM

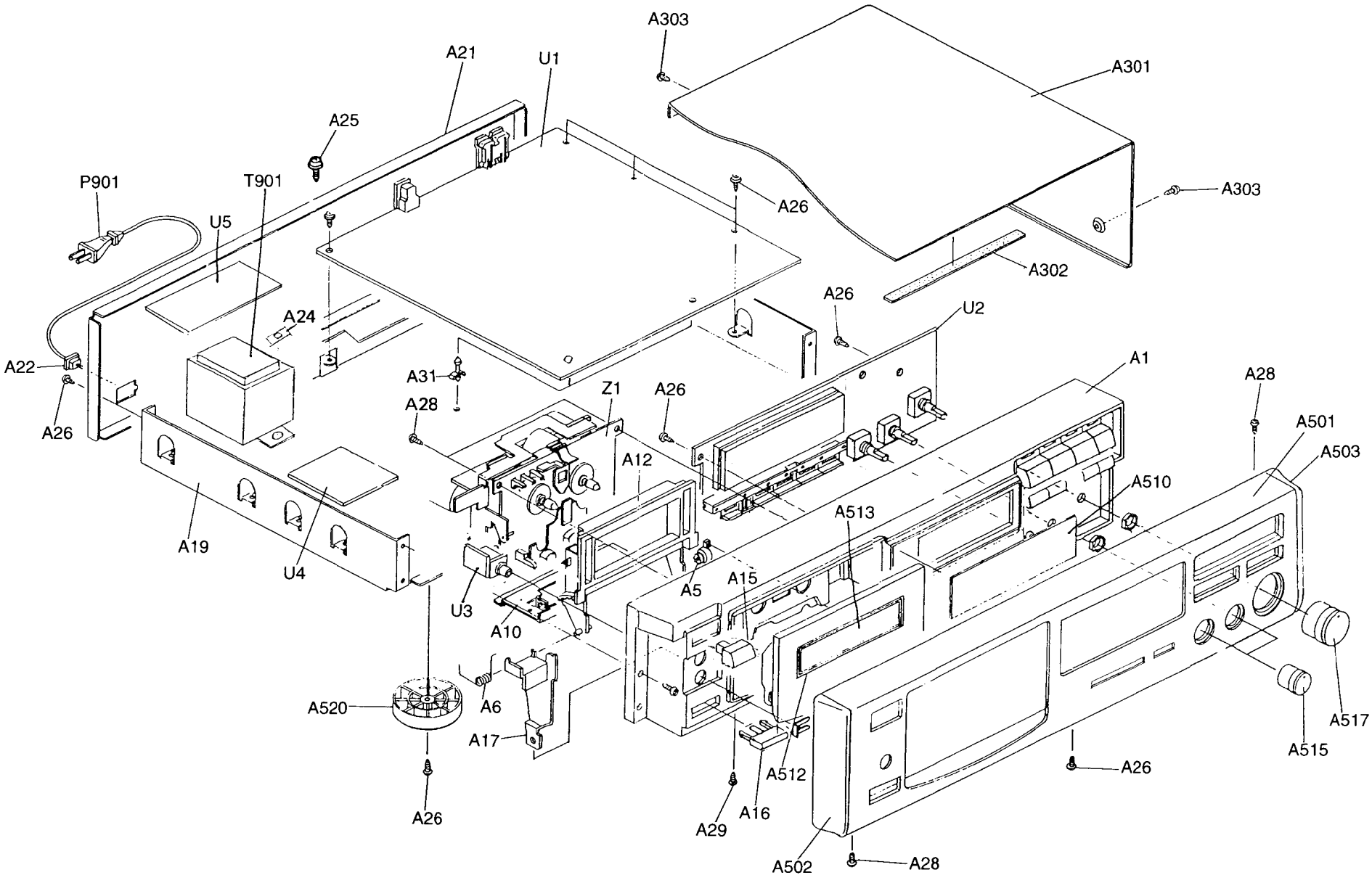
HD404336A33S



MICROPROCDSSOR TERMINAL DESCRIPTION

PIN NO.	TERMINAL	I/O	DESCRIPTION
1	ENC/DEC	O	Decorder/Encorder change-over output
2	MPX ON/OFF	O	Multiplex filter change-over output
3	REC/PB	O	Recording/Playback change-over output
4	BIAS.CONT	O	Bias current change-over output
5	CAPS	O	Capstan motor control output
6	SOL	O	Solenoid control output
7	FF	O	Reel motor control output
8	REW	O	Reel motor control output
9	O-PLAY	O	Torque control output of reel motor
10	DOLBY ON/OFF	O	Dolby control output
11	DOLBY B/C	O	Dolby control output
12	TEST		Test terminal
13	SYSTEM RESET	I	System reset input
14	OSC1		Connect the 4MHz ceramic resonator.
15	OSC2		
16	GND		Ground terminal
19	GND		Ground terminal for A/D converter
20	METAL	I	Metal position tape detection input
21	F-REC	I	Foward recording prevention detection input
22	PACK IN	I	Cassette tape detection input
23	CrO2	I	High position tape detection input
25	NORMAL	O	Recording/Playback equalizer control outputs
26	HIGH	O	On at the high level
27	METAL	O	
28	Rch LEVEL	I	Rch level input
29	Lch LEVEL	I	Lch level input
30	KEY2	I	Operation key input terminal
31	KEY1	I	Operation key input terminal
32	+5V		Power supply for A/D converter
33	+5V		Power supply
34	FT		Adjustment mode setting
36	LINE MUT	O	Line muting output
37	REC MUT	O	Recording muting output
38	6210/R410	I	6210/R410 Change-over intput
41-47	Grid	O	Grid outputs
48-59	Seg.	O	Segment outputs
60	RI-OUT	O	RI code output
61	RI-IN	I	RI code input
62	P-OFF	I	Detection input when the power source is turned on.
63	R.SENS	I	Stand rotation pulse input
64	Vdisp		Vdisp

CHASSIS-EXPLODED VIEW



CHASSIS-EXPLODED VIEW PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
A1	27110885Y	Front bracket AS <B>
	27110886Y	Front bracket AS <S>
A5	28400282	Damper
A6	27180476A	Spring
A10	27130741Y	Bracket F
A12	27301792AY	Cassette frame AS
A13	27180435	Spring
A15	28324140	Knob(PW) <B>
	28324974	Knob(PW) <S>
A16	28323985	knob(EJ) <B>
	28325117	knob(EJ) <S>
A17	27273157AY	Joint(EJ)
A19	27100280AY	Chassis
A21	27122052Y	Rear panel <D>
	27122053Y	Rear panel <P>
	27122054Y	Rear panel <W>
	27122055Y	Rear panel <T>
A22	⚠ 27300750	Cord bushing
A24	870065	PT Washer
A25	830440089Y	"4TTC+8C(BC),Screw"
A26	838130088Y	"3TTB+8B,Screw"
A28	833430080Y	"3TTP+8P(BC),Screw"
A29	835430068Y	"3TTF+6B(BC),Screw"
A30	82143006Y	"3P+6FN(BC),Screw"
A31	27190480-1Y	Holder
A301	28184479AY	Top cover <B>
	28184601Y	Top cover <S>
A302	28140837Y	Cushion
A303	838430088Y	"3TTB+8B(BC),Screw"
A501	27211696Y	Front panel <B>
	27211697Y	Front panel <S>
A502	28125248-6Y	End cap(L) <B>
	28125283Y	End cap(L) <S>
A503	28125249-6Y	End cap(R) <B>
	28125284Y	End cap(R) <S>
A505	29110069Y	TAPE
A507	28135199	Badge
A510	28191705Y	Clear plate
A512	27301859AY	Cassette lid <B>
	27301860AY	Cassette lid <S>
A513	28191704Y	Clear plate <B>
	28191706Y	Clear plate <S>
A515	28325111Y	Knob(LEV) <B>
	28325112Y	Knob(LEV) <S>
A517	28325113Y	Knob(BAL) <B>
	28325114Y	Knob(BAL) <S>
A520	27175292Y	Leg
A522	838130088Y	3TTB+8B,Screw
A523	833430080Y	3TTP+8P(BC),Screw
P101A	2009990356ULY	NSAS-6P0493,Socket AS
P401A	2009990359ULY	NSAS-6P0496,Socket AS
P901	⚠ 253192HITY	AS-UC-6#18,Power supply cord <D>
	⚠ 253193HITY	AS-CEE,Power supply cord <P>
	⚠ 253198HITY	AS-BS,Power supply cord <U>
T901	⚠ 2301008Y	NPT-1206D,Power transformer <D>
	⚠ 2301009Y	NPT-1206P,Power transformer <P>
	⚠ 2301010Y	NPT-1206DG,Power transformer <W>
U1	NAAF-5336-1Y	1N214536-1Y,Main circuit PC board ass'y
U2	NADIS-5337-1Y	1N214537-1Y,Disply circuit PC board ass'y
U3	NAETC-5338-1Y	1N214538-1Y,Headphone PC board ass'y
U4	NASW-5339-1Y	1N214539-1Y,Switch PC board ass'y <D,P,T>
	NASW-5339-1AY	1N214539-1AY,Switch PC board ass'y <W>
U5	NAPS-5340-1Y	1N214540-1Y,Power supply PC board ass'y
U6	NAETC-5342-1Y	1N214542-1Y,PC board ass'y
U7	NAETC-5341-1Y	1N214541-1Y,Switch PC board ass'y <W>
W701	2047272512Y	NCFC7-272512,Flexible flat cable
Z1	244194Y	Cassette deck mechanism, NDM-185
Z2	24603419Y	Lever(EJ)

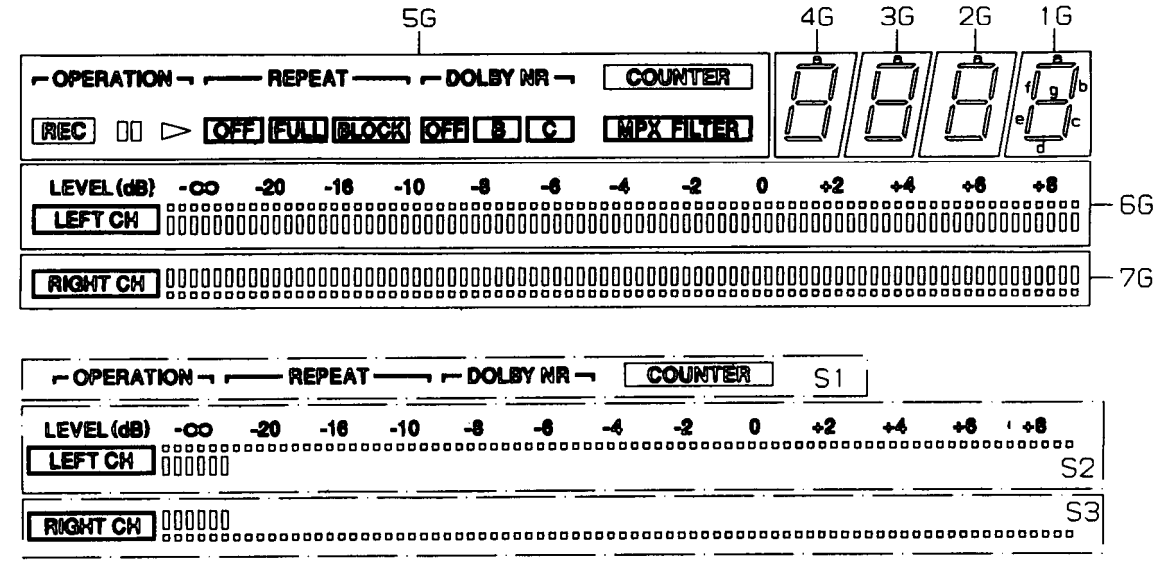
NOTE:
<P> : 230V model only
<U> : U.K. model only
<W> : Worldwide model only
<D> : 120V model only
<T> : Taiwanese model only
<B> : Black model only
<S> : Silver model only

NOTE: THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

FLUORESCENT INDICATOR TUBE

BJ337GK

GRID ASSIGNMENT



(6G,7G)

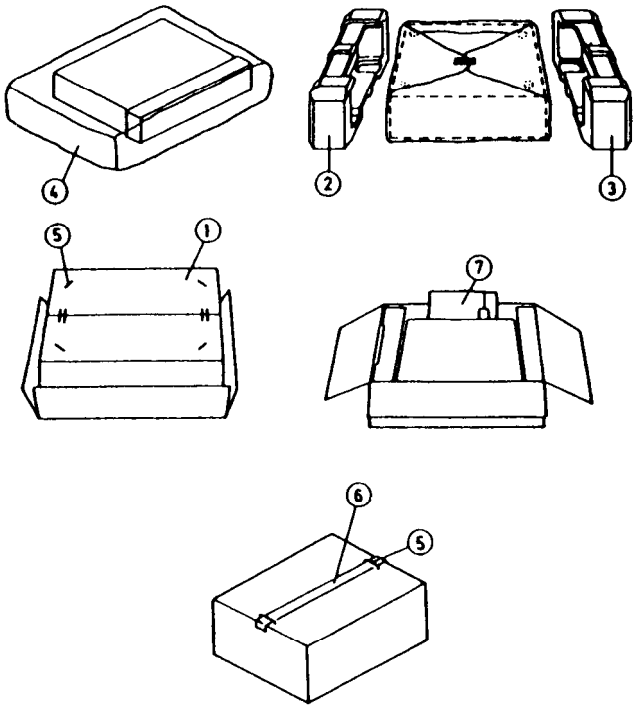
PIN CONNECTION

PIN NO.	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	F2	F1

TAPE MECHANISM-PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
2-2	24601245	Motor reel
3	24611617	Head plate
3-9	24600126	R/P head
3-10	24600032	Erase head
4	24601253A	Main motor
5	24606535	PCB control
18	24602542	Main belt
31	24602541	Pinch roller
Z2	24603149Y	Lever(EJ)
Z4	24603418Y	Lever(SB)
Z5	24611612Y	Retainer L
Z6	24605803Y	Spring
Z8	890301S	Ring(E)
Z9	833126047Y	2.6TTP+4S, Screw
Z11	24609074Y	Screw

PACKING VIEW

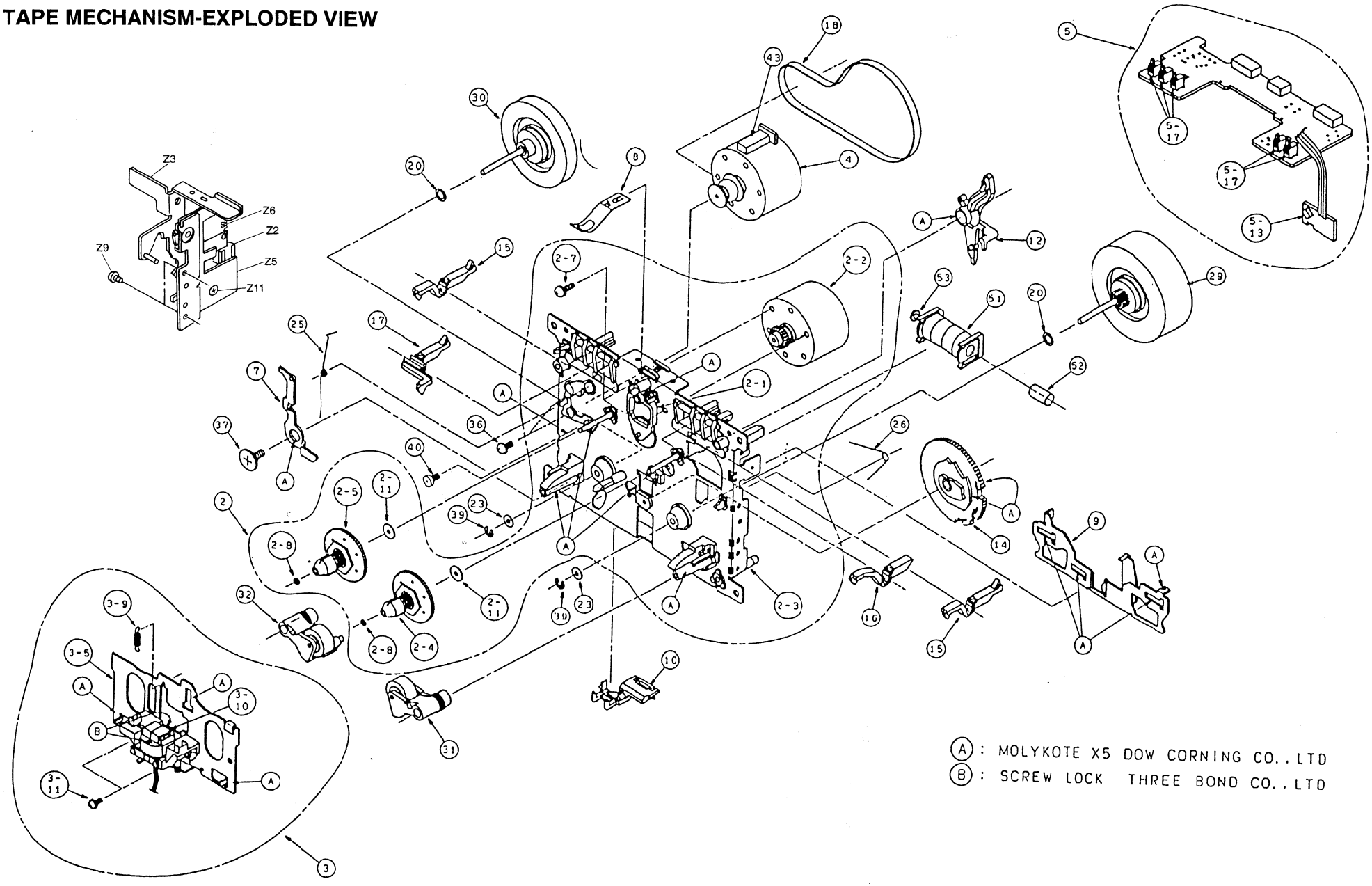


PARTS LIST

REF NO.	PART NO.	DESCRIPTION
1	29052867	Carton <B>
	29052868	Carton <S>
2	29091636-1BY	Pad (L)
3	29091637-1BY	Pad (R)
4	29100034-1Y	Poly bag,650×850
5	282301Y	Staple
6	29110098Y or	PP Tape or
	29110071Y	PP Tape
	29365019B	Warranty card <N>
	29365020K	Warranty card <V>
	29361801Y	UPC Label <N>
7	Accessary bag ass'y	
	29342118	Instruction manual (E) <D,P,B,W>
	29342119	Instruction manual (V) <V>
	29342120	Instruction manual (U3) <C,T,W>
	29342121	Instruction manual (U6) <P>
	261504	Paper tape
	29100097-1	Poly bag,320×250
	2010244	Pin cord

NOTE:
<P> : 230V model only
<W> : Worldwide model only
<D> : 120V model only
<C> : Canadian model only
<T> : Taiwanese model only
<V> : German model only
<N> : U.S.A. model only

TAPE MECHANISM-EXPLODED VIEW



PRINTED CIRCUIT BOARD - PARTS LIST

Main circuit PC board ass'y (NAAF-5336-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q101	222905	µPC1228HA
Q105	22240388	HA12142NT
Q113	22240147	µPC1330HA
Q201	222811	NJM4558D-D
Q301,Q401	22240369	M5218AP
Q411	222959	µPC1297CA
Q501	22240313	BA6138
Q701	22240866	HD404336A, 33S
Q702	22240239	TA7291S
Q904	222780055NEC	MPC78M05AHF
	Transistors	
Q103,Q104	221281T	DTC114YS
Q107-Q112	221281T	DTC114YS
Q403,Q404	2213285T or	2SC1740S-S or
	2213284T	2SC1740S-R
Q405-Q410	221281T	DTC114YS
Q412	2211504T	2SA950-Y
Q413	221281T	DTC114YS
Q414,Q415	2201883T	2SC1213-C
Q416,Q417	221281TY	DTC114YS
Q601	2213355T or	2SA933S-S or
	2213354T	2SA933S-R
Q602	221281T	DTC114YS
Q603,Q604	2211705T or	2SD655-E or
	2211706T	2SD655-F
Q703	221281T	DTC114YS
Q704,Q705	2211705T or	2SD655-E or
	2211706T	2SD655-F
Q706	2213285T or	2SC1740S-S or
	2213284T	2SC1740S-R
Q707	221281T	DTC114YS
Q708-Q902	2213285T or	2SC1740S-S or
	2213284T	2SC1740S-R
Q903	2202724 or	2SB1569A-D or
	2202725	2SB1569A-E
Q905,Q906	2213285T or	2SC1740S-S or
	2213284T	2SC1740S-R
Q907	2202724	2SB1569A-D
	2202725	2SB1569A-E
Q908	2213355T or	2SA933S-S or
	2213354T	2SA933S-R
Q909	2213090T	DTA114YS
Q910	221281T	DTC114YS
	Diodes	
D601-D606	223163T	1SS133
D701	224450752T	MTZ7.5B, Zener
D702	224450472T	MTZ4.7B, Zener
D703,D704	223163T	1SS133
D705	224450562T	MTZ5.6B, Zener
D901,D902	22380046T	AM01Z
D903,D905	22380035T	GP104003E
D904,D906	22380046T	AM01Z
D907,D908	223163T or	1SS133 or
	223205TY	1SS270A

CIRCUIT NO.	PART NO.	DESCRIPTION
D909,D910	224451303T	MTZ13C, Zener
D911	224450562T	MTZ5.6B, Zener
D912-D914	223163T	1SS133
D915	224452204T	MTZJ22D, Zener
D916	224450562T	MTZ5.6B, Zener
D917	224450433T	MTZ4.3C, Zener
	Coils	
L101,L102	233436	NMC-6081, MPX COIL
L401,L402	231084	NCH-2132, CHOKE COIL
L403,L404	231085	NCH-2133, CHOKE COIL
L405,L406	231218	NCH-4453, CHOKE COIL
L407	231223	NLO-2064, OSC COIL
X701	3010150T	CST4.00MGW, CERA ROCK
	Capacitors	
C101,C102	374726814T	ECQ-B50V, 681J, TF C
C103,C104	354780229T	CE04W50V, 2.2M, ELECT C
C105,C106	374721015T	ECQ-B50V, 101K, TF C
C109,C110	374721034T	ECQ-B50V, 103J, TF C
C111,C112	354744709T	CE04W16V, 47M, ELECT C
C113,C114	354761009T	CE04W35V, 10M, ELECT C
C115,C116	374721834T	ECQ-B50V, 183J, TF C
C117	354744719T	CE04W16V, 470M, ELECT C
C119,C120	374723915T	ECQ-B50V, 391K, TF C
C121-C124	354780229T	CE04W50V, 2.2M, ELECT C
C125	354780109T	CE04W50V, 1M, ELECT C
C127,C128	374722224T	ECQ-B50V, 222J, TF C
C129,C130	354761009T	CE04W35V, 10M, ELECT C
C131-C136	374722224T	ECQ-B50V, 222J, TF C
C137-C140	374721044T	ECQ-V50V, 104J, TF C
C141,C142	354741019T	CE04W16V, 100M, ELECT C
C145,C146	354761009T	CE04W35V, 10M, ELECT C
C147	354744719T	CE04W16V, 470M, ELECT C
C148	354742219T	CE04W16V, 220M, ELECT C
C149,C150	354741019T	CE04W16V, 100M, ELECT C
C151,C152	354761009T	CE04W35V, 10M, ELECT C
C201,C202	354780479T	CE04W50V, 4.7M, ELECT C
C203,C204	374721015T	ECQ-B50V, 101K, TF C
C205,C206	374721024T	ECQ-B50V, 102J, TF C
C207-C209	354761009T	CE04W35V, 10M, ELECT C
C210	354742219T	CE04W16V, 220M, ELECT C
C301,C302	354761009T	CE04W35V, 10M, ELECT C
C305,C306	354741019T	CE04W16V, 100M, ELECT C
C307,C308	354761009T	CE04W35V, 10M, ELECT C
C403,C404	374722224T	ECQ-B50V, 222J, TF C
C405,C406	354761009T	CE04W35V, 10M, ELECT C
C407,C408	354744709T	CE04W16V, 47M, ELECT C
C409,C410	353781099T	CE04W50V, 0.1M, ELECT C
C411,C412	354761009T	CE04W35V, 10M, ELECT C
C413,C414	374721015T	ECQ-B50V, 101K, TF C
C415,C416	374724714T	ECQ-B50V, 471J, TF C
C417,C418	374721834T	ECQ-B50V, 183J, TF C
C419,C420	374724724T	ECQ-B50V, 472J, TF C
C421-C424	374724734T	ECQ-V50V, 473J, TF C
C425	354742219T	CE04W16V, 220M, ELECT C
C427,C428	374721034T	ECQ-B50V, 103J, TF C
C429,C430	374724714T	ECQ-B50V, 471J, TF C
C431-C434	374722734T	ECQ-V50V, 273J, TF C

CIRCUIT NO.	PART NO.	DESCRIPTION
C435,C436	370131014T	APS100V, 101J, APS C
C437,C438	370131514T	APS100V, 151J, APS C
C439	374722734T	ECQ-V50V, 273J, TF C
C440,C443	354780479T	CE04W50V, 4.7M, ELECT C
C444	354722219T	CE04W6.3V, 220M, ELECT C
C445,C446	374723324T	ECQ-B50V, 332J, TF C
C447	374721034T	ECQ-B50V, 103J, TF C
C448	370138224T	APS100V, 822J, APS C
C450,C451	354761009T	CE04W35V, 10M, ELECT C
C452	354741019T	CE04W16V, 100M, ELECT C
C501,C502	354780479T	CE04W50V, 4.7M, ELECT C
C503,C504	354780109T	CE04W50V, 1M, ELECT C
C505	354741019T	CE04W16V, 100M, ELECT C
C601	354780479T	CE04W50V, 4.7M, ELECT C
C602	374721044T	ECQ-V50V, 104J, TF C
C606,C607	354780109T	CE04W50V, 1M, ELECT C
C608	354780109T	CE04W50V, 1M, ELECT C
C701,C709	354761009T	CE04W35V, 10M, ELECT C
C705,C903	354741019T	CE04W16V, 100M, ELECT C
C901	374721044T	ECQ-V50V, 104J, TF C
C902	393156827S	CE04W25V, 6800M, FM C
C904	354761009T	CE04W35V, 10M, ELECT C
C905	354742219T	CE04W16V, 220M, ELECT C
C907	354780229T	CE04W50V, 2.2M, ELECT C
C909	393354727S	CE04W25V, 4700M, VX C
C908,C910	354741019T	CE04W16V, 100M, ELECT C
C911	374722734T	CE04W16V, 1000M, ELECT C
C912	354762209T	ECQ-V50V, 273J, TF C
C913	354780229T	CE04W35V, 22M, ELECT C
C916	354761019T	CE04W50V, 2.2M, ELECT C
C918	354784709T	CE04W35V, 100M, ELECT C
C919	354780479T	CE04W50V, 47M, ELECT C
C920,C921	354780229T	CE04W50V, 4.7M, ELECT C
C922	354744709T	CE04W50V, 2.2M, ELECT C
C925	354761009T	CE04W16V, 47M, ELECT C
C926	374722734T	CE04W35V, 10M, ELECT C
C927	374721044T	ECQ-V50V, 273J, TF C
C928,C929	374721044T	ECQ-V50V, 104J, TF C
	Resistors	
R117,R118	5210265TY	N06HR, 50KBC, TRIM R
R403,R404	5210262T	N06HR, 10KBC, TRIM R
R447,R465	453530824T	RNU1/2WCJ, 8.2, METAL R
R461,R462	5210262T	N06HR, 10KBC, TRIM R
R702	443524704T	RM1/10IJ, 3.9K*5, R NET
R712	49163104409	RS1/2WBJ, 47, METAL O R
R726	49163104410	RM1/10IJ, 100K*9, R NET
R727	453534794T	RM1/10IJ, 100K*10, R NET
R903	453530224T	RNU1/2WCJ, 0.47, METAL R
R907	443521004T	RNU1/2WCJ, 2.2, METAL R
R908	443524714T	RS1/2WBJ, 10, METAL O R
R911,R915	443521004T	RS1/2WBJ, 470, METAL O R
R923	453530104T	RNU1/2WCJ, 1, METAL R
	Switches,Plugs	
P101	25045329	NPLG-6P120,Pin plug
P102	25050267	NPJ-4PDBL183,Pin jack
P105	25055038	NPLG-2P29,Pin plug
P401	25050267	NPLG-2P116,Pin plug
P701	25050967 or	NSCT-27P654,Socket or
	25051099	NSCT-27P754,Socket
P706	25051101	NPJ-2PDBL184,Jack
	27190713	3TTB+10S(BC),Screw
		UAMS-11-0,Holder

Display circuit PC board ass'y (NADIS-5337-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q751	212139	BJ337GK, FL Tube
D751	225292DT	SEL4310G-D, LED
D752	225292DT	SEL4310G-D, LED
	Resistors	
R153	5104289	N14RGLC250K, MN17Z, Variable resistor
R155	5104251	N14RGL50K, A17Z, Variable resistor
R471	5104290	N14RGLC5K, B17Z, Variable resistor
	Sockets,Switches,Holder	
P751	25050891 or	NSCT-27P686, Socket or
	25050933	NSCT-27P720, Socket
S771-S782	25035652T	NPS-111-S604, Power switch
S783	25035514	NPS-122-L476, Power switch
S784	25035652T	NPS-111-S604, Power switch
	27190838A	HOLDER

Headphone PC board ass'y (NAETC-5338-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Pin jack	
P301	25045255Y	YKB21-5009, JACK

Switch PC board ass'y (NASW-5339-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Swihch	
P901	25035636	NSP-111-L590P,Power switch

Power supply PC board ass'y (NAPS-5340-1)

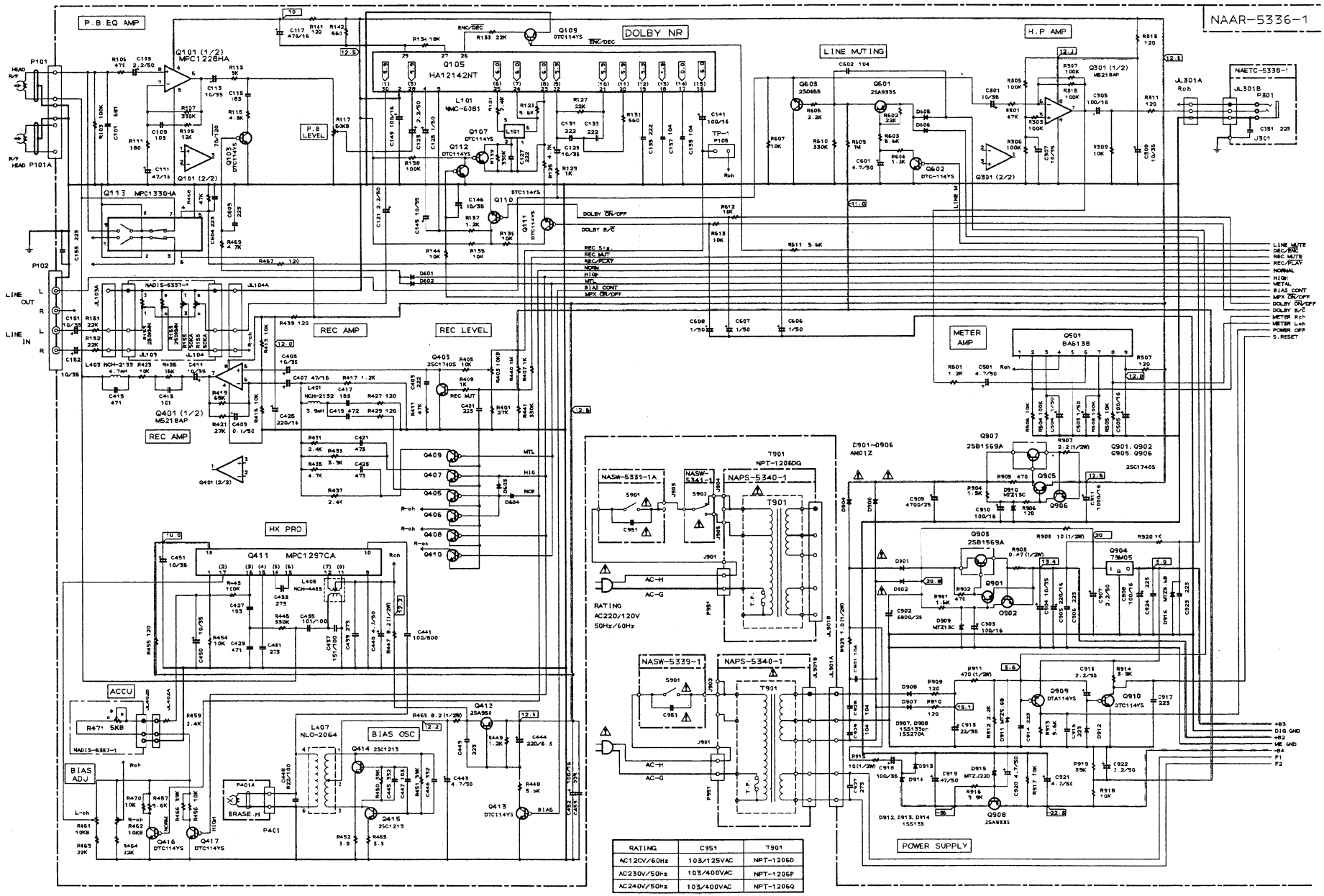
CIRCUIT NO.	PART NO.	DESCRIPTION
	Plug	
P951	⚠ 25055676	NPLG-2P632,Pin plug

Switch PC board ass'y (NAETC-5341-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Switch	
S902	⚠ 25065437	NSS-22157P,Slide switch

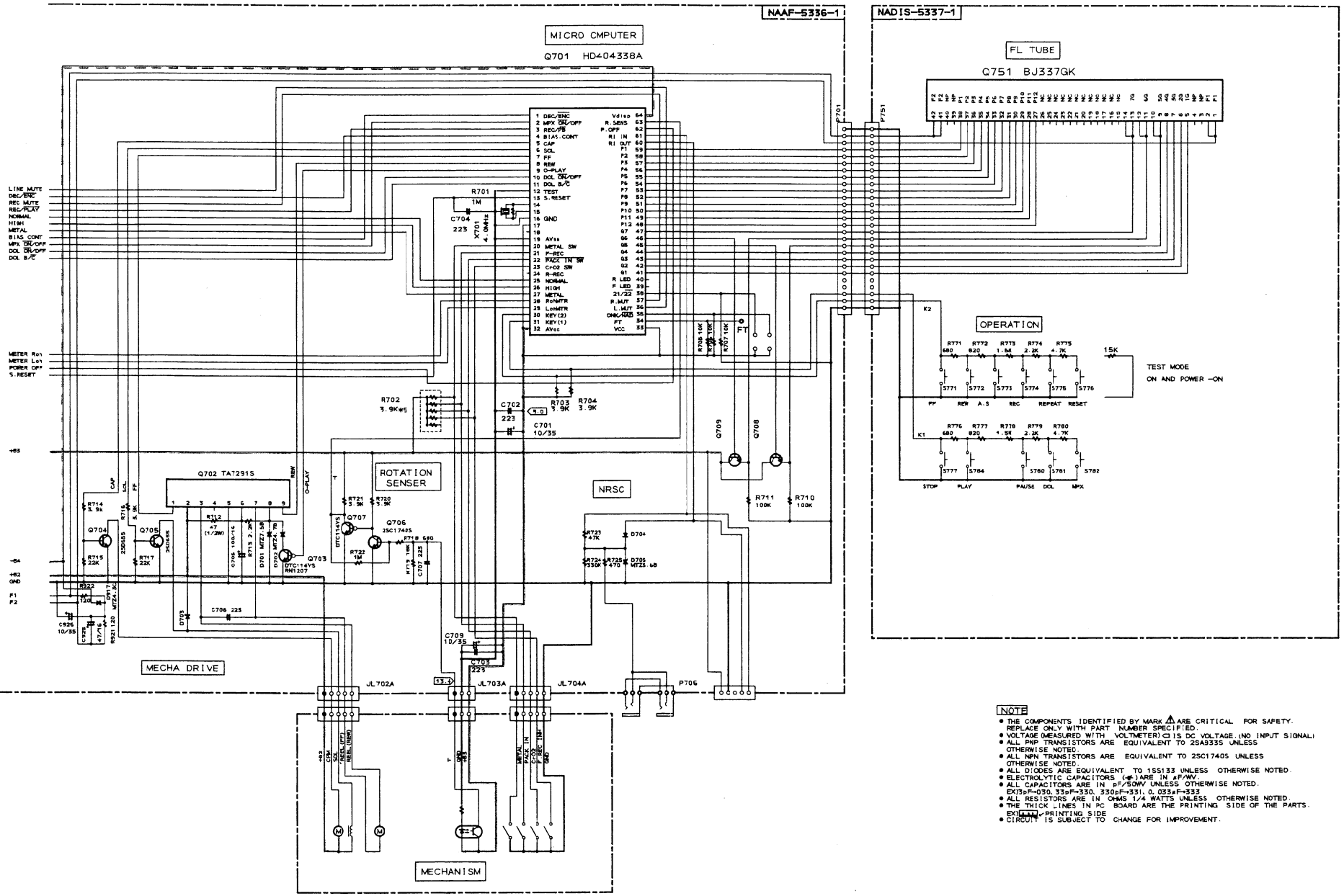
NOTE: THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

SCHMATIC DIAGRAM 1/2



RATING	C951	T901
AC120V/60Hz	103/125VAC	NPT-1206D
AC230V/50Hz	103/400VAC	NPT-1206P
AC240V/50Hz	103/400VAC	NPT-1206Q

SCHEMATIC DIAGRAM 2/2


NAAF-5336-1
NADIS-5337-1
MICRO CMPUTER
Q701 HD404338A
FL TUBE
Q751 BJ337GK
OPERATION
TEST MODE
ON AND POWER -ON
ROTATION SENSER
NRSC
MECHA DRIVE
MECHANISM
Q702 TA7291S
JL702A
JL703A
JL704A
P706
P701
P751
NOTE
THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.
VOLTAGE (MEASURED WITH VOLTMETER) GIVE DC VOLTAGE. (NO INPUT SIGNAL)
ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA933S UNLESS OTHERWISE NOTED.
ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1740S UNLESS OTHERWISE NOTED.
ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
ELECTROLYTIC CAPACITORS (μF) ARE IN μF/WV.
ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
EX) 33pF→030, 33pF→330, 330pF→331, 0.033μF→333
ALL RESISTORS ARE IN OHMS 1/4 WATTS UNLESS OTHERWISE NOTED.
THE THICK LINES IN PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
EX) PRINTING SIDE
CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

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